

Title (en)
Unitary hydroformed roof support pillar

Title (de)
Einteilig durch hochdruckfomrn hergestellte Dachtragsäule

Title (fr)
Colonne unitaire de support de toit hydroformée

Publication
EP 1927534 A1 20080604 (EN)

Application
EP 06125282 A 20061201

Priority
EP 06125282 A 20061201

Abstract (en)
A one-piece B-pillar 10 has a front flange 36 and a rear flange 38 formed on an upper portion 22 of the B-pillar 10. The front and rear flanges 36,38 extend forwardly and rearwardly from a trapezoidal section of the B-pillar. An inner concave portion 46 is provided in a lower portion of the B-pillar. The one-piece B-pillar 10 is secured to the outer and upper surfaces of a roof rail 12 and to the outer surface of a rocker 18 to provide side impact strength. The B-pillar 10 is hydroformed in one-piece to provide superior strength for roof crush performance. The tubular portion of the B-pillar is partially collapsed to form a trapezoidal section in the upper portion of the B-pillar.

IPC 8 full level
B62D 25/04 (2006.01); **B62D 21/02** (2006.01)

CPC (source: EP)
B62D 25/04 (2013.01); **B62D 25/06** (2013.01)

Citation (applicant)
• WO 03070543 A1 20030828 - MAGNA INT INC [CA], et al
• US 6578909 B1 20030617 - REED JOHN T [US], et al

Citation (search report)
• [X] WO 03070543 A1 20030828 - MAGNA INT INC [CA], et al
• [X] US 6578909 B1 20030617 - REED JOHN T [US], et al
• [E] US 2006273630 A1 20061207 - CHEN XIAOMING [US], et al

Cited by
CN103052541A; CN113291381A; US9415810B2; US8651562B2; WO2012007346A1; US9738318B2; US10308285B2

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)
AL BA HR MK RS

DOCDB simple family (publication)
EP 1927534 A1 20080604; EP 1927534 B1 20091014; AT E445527 T1 20091015; DE 602006009832 D1 20091126

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EP 06125282 A 20061201; AT 06125282 T 20061201; DE 602006009832 T 20061201